

## WHAT IS CLAIMED IS:

1. A driven array dual-band linear antenna, comprising a radiator formed by four metal plates arranged as a parallelepiped array, wherein the metal plates have the same length and width, and the length of each metal plate is one half of the wavelength  
5 of a low frequency electric wave transmitted and received by the antenna.
2. The antenna according to Claim 1, wherein the radiator further comprises a bottom plate for connecting lower edges of the metal plates to a signal feed point.
3. The antenna according to Claim 1, wherein the radiator further comprises a connecting members connecting side edges of the neighboring metal plates.
- 10 4. The antenna according to Claim 3, wherein the signal feed point is connected to a coaxial cable of which a ground signal is connected to a copper tube.
5. The antenna according to Claim 1, wherein the metal plates are conductive plates.
6. The antenna according to Claim 1, wherein the metal plates are fabricated  
15 from iron or copper.
7. The antenna according to Claim 1, wherein side edges of the neighboring metal plates are spaced from each other by a gap.
8. The antenna according to Claim 1, wherein low and high operation frequencies of the radiator are 2.4-2.5GHz and 4.9-5.85 GHz, respectively.
- 20 9. A driven array dual-band linear antenna, comprising a radiator formed by a plurality of conductive plates arranged side-by-side as a three-dimensional polygonal array, wherein the sides of the plates are not in contact with each other, and the lower edges of the conductive plates are connected to a feed point in series.